TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-08-06** **Date: 10-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-06-01
Sample Type	:	Ultra Tech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	_
2	Finess by Air permeablity method (m^2/kg, Min)	285.5	225m^2/kg, Min
3	Density (gm/cc)	3.18	_
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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Harshitha

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-08-06** **Date: 06-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-06-01
Sample Type	:	Ultra Tech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-05-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-08-06** **Date: 11-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-06-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	233	233	4.66	95.34	90-100
3	10 mm	2487	2720	54.4	45.6	25-55
4	4.75 mm	2134	4854	97.08	2.92	0-10
5	Pan	146	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-08-06** **Date: 11-05-2017**

Sample ID No : 2017-05-08-06-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.18	–
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-08-06** **Date: 11-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-06-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	324	324	2.2	97.8	90-100
3	20 mm	5345	5669	37.8	62.2	30-70
4	10 mm	4253	9922	66.1	33.9	10-35
5	4.75 mm	4556	14478	96.5	3.5	0-5
6	Pan	522	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-08-06** **Date: 11-05-2017**

Sample ID No : 2017-05-08-06-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.21	–

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-08-06** **Date: 11-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-06-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	83	83	8.3	91.7	90-100	90-100	90-100	95-100
3	2.36 mm	143	226	22.6	77.4	60-95	75-100	85-100	95-100
4	1.18 mm	155	381	38.1	61.9	30-70	55-90	75-100	90-100
5	600 micron	176	557	55.7	44.3	15-34	35-59	60-79	80-100
6	300 micron	178	735	73.5	26.5	5-20	8-30	12-40	15-50
7	150 micron	175	910	91	9	0-10	0-10	0-10	0-15
8	Pan	90	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-05-08-06 Date: 11-05-17

Sample ID No : 2017-05-08-06-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.43	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	5.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2017-05-08-06 **Date: 12-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division,
Address	:	Yelahanka Satellite Town Sub Division,
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-06-04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex - E Clause 9.5 and 10)
Date of test	:	09-05-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	203	201	16362	32.400	1980.2	1992.0	Not less than 1800Kg/m^3
2	400	202	200	16160	32.145	1989.2		
3	400	201	201	16160	32.427	2006.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.420	33.120	3.93	3.81	Shall not be more than 10% by mass
2	34.110	32.980	3.43		
3	33.890	32.560	4.08		

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Lab ID : CP-2017-05-08-06 Date: 12-05-17

Sample ID No : 2017-05-08-06-04

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	200	202	
2	400	202	200	
3	402	202	200	
4	402	202	200	
5	402	201	202	
6	404	201	202	
7	403	200	201	
8	400	203	201	
9	403	202	201	
10	401	201	200	
11	401	201	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
12	400	200	200	
13	402	201	202	
14	401	200	203	
15	401	203	203	
16	401	201	202	
17	402	201	201	
18	403	201	202	
19	400	200	203	
20	400	202	202	
Average of 20 blocks	**401**	**201**	**201**	

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Lab ID : CP-2017-05-08-06 Date: 12-05-17

Sample ID No : 2017-05-08-06-04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	200	80200	342.5	4.3	4.3
2	400	202	80800	339.2	4.2	
3	402	202	81204	371.4	4.6	
4	402	202	81204	332.9	4.1	
5	402	201	80802	398.1	4.9	
6	404	201	81204	345.0	4.2	
7	403	200	80600	341.9	4.2	
8	400	203	81200	327.8	4.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-20-07** **Date: 22-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-17
Sample ID No	:	2017-05-20-07-01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	15/05/2017	22/05/2017	150.22 X 150.13 X 150.19	22553	8.278	394.7	17.5	17.5
2	PCC	M20	15/05/2017	22/05/2017	150.21 X 150.24 X 150.13	22568	8.345	404.0	17.9	
3	PCC	M20	15/05/2017	22/05/2017	150.24 X 150.24 X 150.29	22572	8.365	388.2	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-20-07** **Date: 12-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-17
Sample ID No	:	2017-05-20-07-02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	15/05/2017	12/06/2017	150.16 X 150.19 X 150.21	22553	8.312	521.0	23.1	23.1
2	PCC	M20	15/05/2017	12/06/2017	150.23 X 150.24 X 150.28	22571	8.413	528.2	23.4	
3	PCC	M20	15/05/2017	12/06/2017	150.27 X 150.23 X 150.22	22575	8.410	514.7	22.8	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-25-04** **Date: 29-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-17
Sample ID No	:	2017-05-25-04-01
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/05/2017	29/05/2017	150.17 X 150.12 X 150.15	22544	8.245	529.8	23.5	23.0
2	Cement Concrete Pavement	M30	22/05/2017	29/05/2017	150.22 X 150.25 X 150.29	22571	8.412	514.6	22.8	
3	Cement Concrete Pavement	M30	22/05/2017	29/05/2017	150.21 X 150.24 X 150.26	22568	8.397	510.0	22.6	

Note:
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Prepared by
Harsitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-25-04** **Date: 19-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-17
Sample ID No	:	2017-05-25-04-02
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/05/2017	19/06/2017	150.23 X 150.24 X 150.17	22571	8.342	704.2	31.2	31.6
2	Cement Concrete Pavement	M30	22/05/2017	19/06/2017	150.16 X 150.18 X 150.23	22551	8.313	708.1	31.4	
3	Cement Concrete Pavement	M30	22/05/2017	19/06/2017	150.24 X 150.21 X 150.20	22568	8.356	728.9	32.3	

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AE W4
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-09-01** **Date: 11-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-17
Sample ID No	:	2017-05-09-01-01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	09-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	546	680	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	572	695	19.5%	Satisfactory	Satisfactory

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AE W 4

Prepared By:
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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-09-01** **Date: 12-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-17
Sample ID No	:	2017-05-09-01-02
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	09/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.44	100.45	1.443	4469	81.6	18.3	17.0	21.2
2	Cover Slab-2	75.48	100.42	1.321	4474	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.53	100.49	1.342	4480	80.5	18.0	16.7	20.9

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 12-05-17

Lab ID	:	CP-2017-05-09-01
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Vehicles of Parking adjacent to Railway Wheel Factory Compound Wall from dairy circle in ward no.04.
Agency	:	Sri.N.N.Srinivasaiah, No:2405, 'E' Block, Sahakar Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/23/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-17
Sample ID No	:	2017-05-09-01-03
Sample Type /Size	:	CC Kerb Stone/ 450*200*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	09/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.05	200.43	3.339	7860	124.7	15.9	15.9	19.8
2	B	100.02	200.46	3.297	7856	126.2	16.1	16.1	20.1
3	C	100.03	200.52	3.355	7857	129.1	16.4	16.4	20.5

Note:
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